

Sony EV-320F One Inch Color Videocorder

From the product literature

Take a good look at the Sony Videocorder Model EV-320F. This color and monochrome video tape recording unit features capstan servo electronic editing, with an all-new rotary erase head. So you can take sequences from tape, off-the-air, live camera, etc., and insert them into a pre-recorded tape with perfect synchronization. With the unique ADD feature, you can assemble new scenes onto tape with no loss of sync sequence. The EV-320F's capstan servo synchronizes the unit to the input signal in the playback mode. This allows roll-free switching of the unit's out-put signal to the output signal of either multiple cameras or additional video tape recorders which are operated by a common sync source. The EV-320F can automatically synchronize to a 60 Hz power source when the external sync is re-moved, eliminating manual switching. And, you'll never need a separate sync generator for playback. For recording or playing back color, simply add the optional Sony Color Pack CLP-1B and you're ready to receive a clear, stable NTSC color signal. To assure ultimate editing quality, the EV-320F has an RF output level meter that allows you to track most accurately during playback. A defeat/ normal switch enables you to check and switch the incoming sync signal. With two audio channels, you can add sound on one track, independ-ently, without affecting the audio portion of the other track. The EV-320F uses 1 -inch tape and conforms to standard EIA TV signal requirements. You get 60 minutes of playing time on a 2460-foot reel of tape. One hundred percent tape interchangeability is guaranteed between all EV Series Videocorders, and the unit's video heads are guaranteed for one full year.

Features

- Capstan-servo electronic editing with a newly developed rotary erase head.
- Push button assembly and inserting
- No External sync generator required for playback
- Full NTSC color record/playback capability with Sony CLP-1B Color Adapter
- Slow motion and full stop action in color and monochrome
- Two audio channels: one simultaneous, one independent; picture can be inserted without affecting audio
- RF Output meter for accurate tracking
- Defeat/Normal switch of incoming sync signal
- Rack mountable in standard 19" rack
- Simple operation, easy tape threading
- 100% tape interchangeability with all other EV series Videocorder
- Horizontal or vertical operation for complete versatility
- Rugged metal case with dust-proof cover
- Solid-state modular construction
- Rotary transformer instead of slip rings and brushes ensures high reliability and low video noise
- Solenoid operated and remotely controllable
- Compatible with any existing CCTV system
- One year head life warranty
- High resolution picture and excellent sound quality; high signal-to-noise ration for both audio and video
- Automatic end-of-tape shut-off

Electronic and manual tracking control

GENERAL

Power voltage 117V plus/minus 5V

Power frequency 60 Hz plus/minus 0.5 Hz

Power consumption 150 VA, max.

Ambient Temperature 23 degrees F-113 degrees F (storage) 41 degrees F-104 degrees F (operating)

Recording video signal EIA standard, or 60 Hz field frequency, 2:1 or random interlaced, composite video signal, NTSC color signal

Video recording system Rotary 2-head scan system: frequency modulation; no bias saturation recording system

Tape interchangeability Can play back tapes recorded by all EV Series Videocorders

Modular construction Transistorized

Cabinet Housed in portable metal cabinet with dust cover and carrying handles

Number of heads Video (record/playback) 2: Audio Channel 1 (record/playback) 1: Audio

Channel 2 (record/playback) 1: Control Track (record/playback) 1: Erase (complete tape width or

Audio Channel 2 track only) 1: Rotary erase 2

Video head life One-year warranty

Operating position Vertical or horizontal

VIDEO SIGNALS

Input Composite video signal (sync negative) 0.5V-2.0V p-p, 75 ohms unbalanced

Output Composite video signal (sync negative) 1.0V p-p, 75 ohms unbalanced

Horizontal resolution Monochrome: more than 300 lines (RETMA Chart); Color: more than 240 lines

Signal-to-noise ratio Better than 43 dB

AUDIO SIGNALS

Input signal Low level (microphone: -70 dB, 600 ohms, balanced (0 dB=0.775V): High level (line): plus/minus 4 dB, 10K ohms balanced

Output signal Line out: +4 dB, 600 ohm load, balanced: monitor: +4 dB, 10 K ohm load, balanced

Frequency response 50 Hz +1 dB \pm 6dB: 100 \pm 5KHz plus/minus 1 dB, 12 KHz +1 \pm 6 dB

Signal to noise ratio Better than 50 dB at 3% distortion level with NAB weighted curve

TAPE TRANSPORT

Tape speed 7.8 ips plus/minus 0.2 %

Recording time 60 minutes with 2,460 ft. tape

Rewind/Fast Forward time Within 4 minutes with 2,460 ft. tape

Wow and flutter Within 0.15% wrms (NAB weighted)

Reel SONY reel Model RI-8V or R1-8VP

Tape SONY video tape Type V-12 series or equivalent

SPECIAL FEATURES

Electronic Editing

Capstan servo system provides complete insert or adding of picture on prerecorded tape without any disturbance of synchronization. The playback signal synchronizes to standard vertical sync signal input. It synchronizes to power line automatically when there is no input signal, thus making operation simple and easy. Audio Channel 2 is actuated in the insert mode, thus the original sound on Channel 1 is not disturbed

Slow and Still Playback speed is continuously variable from stop action to less than one-fifth of normal speed

Tracking Control Adjustable ± 30 of rotary video head track

Audio 2 Dubbing Audio Channel 2 can be used to dub (record) audio information at a later time without erasing or disturbing the previously recorded picture

DIMENSIONS AND WEIGHT

Dimensions 18"(W) x 10' 1/4"(H) x 19 1/4"(D)

Weight 86 lbs.

MONITOR

Video Monitor One of the two video outputs may be used

Audio Monitor Either Audio CH 1 or Audio CH 2 may be selected: 10K ohm balanced load